

# SmartReader Plus 3

## Product Specifications

**Type:** Eight-Channel AC Current and Voltage

### GENERAL SMARTREADER PLUS SPECIFICATIONS

**Size:** 107 mm x 74 mm x 22 mm (4.2" x 2.9" x 0.9")  
**Weight:** 110 grams (3.75 ounces)  
**Case Material:** Noryl® plastic  
**Battery:** 3.6 volt Lithium, guaranteed for ten years  
**Resolution:** 12-bit (1 part in 4096)  
**Mounting:** Magnetic backing or lock eyelet  
**Clock Accuracy:** +/- 2 seconds per day  
**Sampling Methods:** Continuous (First-in, First-out)\*, Stop When Full (Fill-then-stop)  
 \*Not available with sample rates faster than eight seconds  
**Operating Limits:** -40 to 70°C (-40 to 158°F) and 0 to 95% RH (non-condensing)  
**PC Requirements:** IBM PC or 100% compatible with at least one free serial port, 2 MB of RAM memory, and 2 MB of hard disk space  
**Software Requirements:** TrendReader® Standard - Windows version 3.1, 95, 98, Me, NT, 2000, or XP

**Memory Size:** 32KB; capable of storing 21,500 12-bit readings  
*(3 models available)*  
 128KB; capable of storing 87,000 12-bit readings  
*(Catalog#: 01-0010, SRP-003)*  
 1.5MB; capable of storing 1,048,000 12-bit readings  
*(Catalog#: 01-0114, SRP-003-128K)*  
*(Catalog#: 01-0143, SRP-003-1.5M)*  
**Sampling Rates:** User selectable rates from 25 per second to every eight hours  
 (BP-101 battery pack or PS-201 power supply required for sampling rates faster than eight seconds)  
**Number of Channels:** Eight (one internal for ambient temperature, four for AC current for use with ACR/Amprobe current probes and three with 0-5 VDC inputs, which can be used with Rochester/Scientific Columbus AC voltage transducers to monitor 3-phase voltage)

#### Current Channel Ranges:\*

With A60FL current probes: 5, 25, 100, 250 Amps  
 With A70FL current probes: 10, 50, 250, 500 Amps

#### Nominal Voltage Ranges:

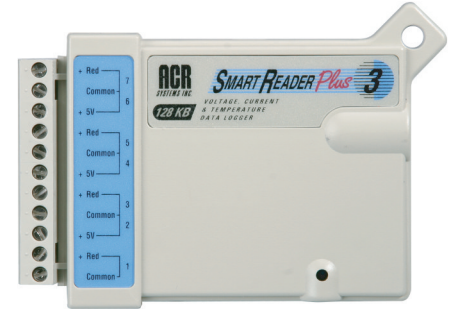
120V (1 phase, 60Hz)  
 480V (3 phase, 60Hz)

#### Accuracy:

Current channels: +/- 3.0% of full scale above 10% of range  
 Voltage channels: +/- 0.5% of full scale

\* To monitor current ranges up to 3000 Amps, the CT50-2 probe (a 50 to 1 current transformer) can be used, in conjunction with the A60FL or the A70FL

The SmartReader Plus 3 makes easy, accurate recordings of AC current and voltage. The easy-to-use ACR/Amprobe® CTs provide safe current readings by simply clamping around the power leads. AC voltage is monitored by connecting an AC voltage transducer to the 5V channels.



### WARRANTY

Internal Battery: 10 Years  
 Data Logger: 3 Years

### APPLICATIONS

Monitoring 3-phase voltage and current, start-up or long-term load analysis, demand side management, determining tenant power consumption, electric motor maintenance scheduling, etc.

Model#:	Cat#:
SRP-003	01-0010
SRP-003-128K	01-0114
SRP-003-1.5M	01-0143